| Inde | ex of | Claim | IS |
|------|-------|-------|----|
|      |       |       |    |

Application/Control No.

10/662,107

Examiner

Otilia Gabor

Applicant(s)/Patent under Reexamination

HWANG, DAVID H.

Art Unit

2878

| <b>√</b> | Rejected |
|----------|----------|
| 1        | Allowed  |

| _ | (Through numeral)<br>Cancelled |
|---|--------------------------------|
| + | Restricted                     |

| N | Non-Elected  |
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| _ | Interference |

| A | Appeal   |
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| 0 | Objected |

| CI-  | im   | Date                                |              |          |  |          |                |              |              |          |
|--|--|-------------------------------------|--------------|----------|--|----------|----------------|--------------|--------------|----------|
|  |  | -                                   |              | _        | _  | Jak      | _              | _            | _            |          |
| Final  | Original                                     | 3/31/05                             |              |          |  |          |                |              |              |          |
|  | 1<br>2<br>3                                  | <b>√</b>                            |              |          |  |          |                |              |              |          |
|  | 2  | 7                                   |              |          |  |          |                |              |              |          |
|  | ვ  | ٧                                   |              |          |  |          |                |              |              |          |
|  | 4  | 7                                   |              |          |  |          |                |              |              |          |
|  | 5  | 4                                   |              |          |  |          |                |              |              |          |
|  | 4<br>5<br>6<br>7                             | 7777                                |              |          |  |          |                |              |              |          |
|  | 7  | 4                                   |              |          |  |          |                |              |              |          |
|  | 8  | 1                                   |              |          |  |          | L              |              | L.           |          |
|  | 9  | 1                                   |              | L        |  |          |                |              |              |          |
|  | 10   | 1                                   |              | Щ        |  |          |                |              |              |          |
|  | 11   | 1                                   | _            |          | Ш  |          |                |              |              |          |
|  | 12   | 1                                   | _            | _        | L  |          |                |              |              |          |
| <u> </u>   | 13   |                                     | L_           | _        |  | L_       | <u> </u>       | <u> </u>     | _            | Щ        |
|  | 14   | √<br>√                              | L            | <u> </u> | L  |          | ļ              | L            | _            | Щ        |
|  | 11<br>12<br>13<br>14<br>15<br>16<br>17<br>18 | 1                                   | <u> </u>     | H        | $\vdash$   | $\vdash$ | <u> </u>       | $\vdash$     | <u> </u>     | $\vdash$ |
| _  | 16   | V                                   |              |          | -  | _        |                | <u> </u>     | -            | Н        |
| <u> </u>   | 1/   | 1                                   | _            | <u> </u> |  | $\vdash$ | -              | <u> </u>     | <u> </u>     | $\vdash$ |
|  | 18   | 1                                   | $\vdash$     | <u> </u> |  | H        | <u> </u>       | $\vdash$     |              | $\vdash$ |
|  | 19   | \ \ \                               | -            | ⊢        | $\vdash$   |          | -              | $\vdash$     | <u> </u>     | $\vdash$ |
|  | 20   | 1                                   | -            | ┝        | H  | -        |                | $\vdash$     | <u> </u>     | _        |
|  | 20<br>21<br>22                               | 1                                   | -            | ⊢        | $\vdash$   | -        | _              | $\vdash$     | _            |          |
|  | 22   | √<br>√                              | $\vdash$     | ┝        | -  | ⊢        | -              | H            |              |          |
|  | 23<br>24                                     | J                                   | $\vdash$     | ├        | $\vdash$   | $\vdash$ |                | H            | _            | H        |
| ├  | 25   | 1                                   | Н            |          | $\vdash$   | $\vdash$ |                | -            | _            | $\vdash$ |
| <del>                                     </del> | 26   | 1                                   | $\vdash$     | -        |  |          |                | Н            | $\vdash$     |          |
| <del>                                     </del> | 27   | 1                                   | $\vdash$     | $\vdash$ | H  | -        | $\vdash$       |              | $\vdash$     | -        |
| <del> </del>                                     | 28   | <del> </del>                        | H            | $\vdash$ |  | Н        |                |              |              |          |
|  | 28<br>29                                     | _                                   |              | $\vdash$ | <del>                                     </del> |          |                |              | _            |          |
|  | 30   |                                     |              |          |  | $\vdash$ | _              |              | _            |          |
| $\vdash$   | 31   |                                     |              | _        |  |          |                | Т            |              |          |
| <u> </u>   | 31<br>32                                     |                                     |              |          |  |          |                |              |              |          |
|  | 33   | 一                                   |              | Г        |  |          | Г              |              |              |          |
|  | 34   |                                     |              |          |  |          |                |              |              |          |
|  | 35   |                                     |              |          | L  |          |                |              |              |          |
|  | 36   |                                     |              |          |  |          |                |              |              |          |
|  | 37   |                                     |              |          |  |          |                |              |              |          |
|  | 38   |                                     |              |          |  |          |                |              |              |          |
|  | 39   | <u></u>                             | L_           | _        | _  |          | <u> </u>       | _            | $oxed{oxed}$ |          |
|  | 40   | <u> </u>                            |              | <u> </u> | <u> </u>   | ļ        | _              |              | L            | L_       |
| <u> </u>   | 41   | $ldsymbol{ldsymbol{ldsymbol{eta}}}$ | <u> </u>     | <u> </u> | <u> </u>   |          | <u> </u>       |              | L            |          |
|  | 42   | <u> </u>                            | <u> </u>     | <u> </u> | ļ  | _        | <u> </u>       | <u> </u>     |              | _        |
|  | 43   | <u> </u>                            | <u> </u>     | <u> </u> | Ь  | <u> </u> | <u> </u>       | lacksquare   | <u> </u>     | $\vdash$ |
| <u> </u>   | 44   | _                                   | <u> </u>     | <u> </u> | <u> </u>   | <b> </b> | <u> </u>       | <u> </u>     | <u> </u>     | <u> </u> |
|  | 45   | <u> </u>                            | <u> </u>     | <b>L</b> | <u> </u>   | <u> </u> | <u> </u>       |              | <u> </u>     | $\vdash$ |
|  | 46   | ┞_                                  | <u> </u>     | _        | <u> </u>   | _        | <u> </u>       | <del> </del> | <u> </u>     | $\sqcup$ |
|  | 47   | _                                   | $oxed{oxed}$ | <u> </u> | <u> </u>   | _        | <u> </u>       | <u> </u>     | <u> </u>     | <u> </u> |
|  | 48   | <u> </u>                            | $\vdash$     | $\vdash$ | ├-   | <u> </u> | <del> </del> — | ⊢            | $\vdash$     | $\vdash$ |
|  | 49   | -                                   | <u> </u>     | ┞        | <u> </u>   | <u> </u> | <u> </u>       | <u> </u>     | <u> </u>     | $\vdash$ |
| 1  | 50   | 1                                   | ı            | i        | ı  | ı        |                | ı            | ı            | ı        |

| Cla      | im        |  |          |                | _[   | Date     | •            |  |  | _        |
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| Final    | Original  |  |          |                |  |          |              |  |  |          |
| -        | 51        | L  |          |                | _  |          |              |  |  |          |
| -        | 5         |  | $\vdash$ |                |  |          |              |  |  |          |
| $\vdash$ | 52<br>53  | $\vdash$   | $\vdash$ | Н              |  |          |              | $\vdash$   |  | _        |
| $\vdash$ | 53        |  | H        | H              |  |          |              | _  |  |          |
| -        | 54<br>55  |  |          |                |  | _        |              | _  |  |          |
| $\vdash$ | 22        |  |          | _              |  |          | _            |  |  |          |
| _        | 56        | _  |          | _              | _  |          |              |  |  |          |
| -        | 57        |  |          |                |  |          |              |  | _  | -        |
|          | 58        | _  | H        | $\vdash$       | Н  |          |              |  | _  |          |
| $\vdash$ | 59        |  | _        |                |  |          |              |  | _  | _        |
| -        | 60<br>61  | _  | _        | _              | -  | -        |              |  | _  | -        |
| _        | 60        |  | _        | $\vdash$       | _  | _        |              |  | _  | -        |
| -        | 62<br>63  | <u> </u>   | -        | $\vdash$       |  | <u> </u> | $\vdash$     | Ь  | <b> </b>   | H        |
| -        | 64        | <del> </del>                                     | $\vdash$ | $\vdash\vdash$ | H  |          | $\vdash$     |  | _  | $\vdash$ |
| -        | 64<br>65  | $\vdash$   | $\vdash$ | $\vdash$       | <u> </u>   | -        | $\vdash$     | -  | -  | -        |
| -        | 66        | -  |          |                | -  |          | $\vdash$     |  | _  | _        |
| -        | 67        |  | _        | -              |  | -        | <del> </del> | -  | -  | ⊢        |
|          | 68        | -  | $\vdash$ | $\vdash$       | _  | $\vdash$ |              | -  |  | ⊢        |
|          | 69        | ├  | -        | $\vdash$       | _  | ⊢        | -            |  |  | ┝        |
| -        | 70        | -  | -        | $\vdash$       | H  | ┝        | H            | -  | -  | -        |
| -        | 70        | -  | <u> </u> | $\vdash$       | $\vdash$   | $\vdash$ | $\vdash$     |  |  | ┝        |
| -        | 72        | <u> </u>   | -        | -              | $\vdash$   | ┢        | $\vdash$     | -  |  | $\vdash$ |
| -        | 73        | -  | _        | $\vdash$       | _  | -        | -            | -  | $\vdash$   | $\vdash$ |
| <u> </u> | 74        | -  | -        | $\vdash$       | $\vdash$   | -        | -            | -  | _  | -        |
| -        | 75        | <u> </u>   | $\vdash$ | ⊢              | _  | -        |              | $\vdash$   | -  | H        |
|          | 76        | -  | $\vdash$ | ⊢              |  | ⊢        | H            |  | -  | H        |
|          | 76<br>77  | -  | -        | $\vdash$       |  | $\vdash$ | -            |  | ┢  |          |
|          | 78        | ┢  | ┢        | $\vdash$       | _  | $\vdash$ | _            | Н  | $\vdash$   | $\vdash$ |
|          | 79        | <del>                                     </del> | Н        | $\vdash$       | $\vdash$   | _        | $\vdash$     | 一  | ┢  | $\vdash$ |
|          | 80        | $\vdash$   | H        | $\vdash$       | _  | $\vdash$ | $\vdash$     | $\vdash$   | -  | H        |
|          | 81        | H  | ╁        |                |  |          | $\vdash$     | -  |  | ┝        |
|          | 82        | ┢  | H        |                |  | $\vdash$ | $\vdash$     | -  | ┝  | Н        |
|          | 83        | Т  | $\vdash$ |                | $\vdash$   | $\vdash$ | $\vdash$     | <del>                                     </del> | <del>                                     </del> | T        |
| -        | 84        | $\vdash$   | $\vdash$ |                | <del>                                     </del> | $\vdash$ | $\vdash$     | <u> </u>   | $\vdash$   | Г        |
| <u> </u> | 85        | T  | T        |                | $\vdash$   | $\vdash$ | T            | $\vdash$   | <del>                                     </del> | $\vdash$ |
|          | 86        | Т  | $\vdash$ |                | _  | $\vdash$ | $\vdash$     |  | <u> </u>   | $\vdash$ |
|          | 87        | Т  | Г        |                |  |          | Г            |  |  | Г        |
|          | 88        | Г  | Г        | Г <u>-</u>     | Т  |          |              |  | $\Box$   | Γ        |
|          | 89        | <u> </u>   | $\Box$   | Г              |  |          |              |  |  | Г        |
|          | 90        | Г  |          |                |  |          |              |  |  |          |
|          | 91        |  |          |                |  |          |              |  |  |          |
|          | 92        |  |          |                |  |          |              |  |  |          |
|          | 93        |  |          |                |  |          |              |  |  |          |
|          | 94        |  |          |                |  |          |              |  |  |          |
|          | 95        |  |          |                |  |          |              |  |  |          |
|          | 96        |  |          |                |  |          |              |  |  |          |
|          | 97        |  |          |                |  |          |              |  |  |          |
|          | 98        | Γ  |          |                |  |          |              |  |  | L        |
|          |           |  |          |                |  |          |              |  |  |          |
|          | 99<br>100 |  |          |                |  |          |              |  |  | L        |

| Cla  | aim                                    | Date     |          |                                     |          |          |          |                    |          |                 |
|--|--|----------|----------|-------------------------------------|----------|----------|----------|--------------------|----------|-----------------|
|  |  |          |          |                                     |          |          |          |                    |          |                 |
| Final  | Original                               |          |          |                                     |          |          |          |                    |          |                 |
|  | 101<br>102<br>103                      |          |          |                                     |          |          |          |                    |          |                 |
|  | 102                                    |          |          |                                     |          |          |          |                    |          |                 |
|  | 103                                    |          |          |                                     |          |          |          |                    |          |                 |
|  | 104                                    |          |          |                                     |          |          |          |                    |          | $\Box$          |
| ļ  | 105<br>106                             |          |          |                                     |          |          |          |                    |          | Ц               |
|  | 106                                    |          |          |                                     |          |          |          |                    |          |                 |
|  | 107                                    |          |          |                                     |          |          |          |                    |          | Ц               |
| <u> </u>   | 108<br>109                             |          |          |                                     |          |          |          |                    |          | $\dashv$        |
|  | 109                                    |          |          |                                     |          |          |          |                    |          | $\dashv$        |
|  | 110<br>111                             |          |          |                                     |          |          |          |                    |          | $\dashv$        |
|  | 112                                    | _        |          |                                     |          |          | $\vdash$ | _                  |          | Н               |
| -  | 112                                    |          |          | -                                   | -        |          | _        |                    |          | $\vdash$        |
| <u> </u>   | 113                                    | _        |          | _                                   | -        |          | _        | -                  | _        | $\vdash$        |
| ┝  | 113<br>114<br>115                      | _        |          | _                                   |          |          |          | -                  |          | Н               |
| <u> </u>   | 116                                    | _        | _        | _                                   | -        | _        | -        | _                  |          | $\vdash$        |
| <u> </u>   | 116<br>117                             |          |          |                                     |          |          |          |                    | $\vdash$ | Н               |
| <u> </u>   | 118                                    |          |          |                                     |          |          | $\vdash$ |                    | $\vdash$ |                 |
|  | 118<br>119                             |          |          |                                     |          |          | $\vdash$ |                    |          | $\neg$          |
|  | 120                                    |          | _        | _                                   | _        | _        | $\vdash$ | _                  |          |                 |
|  | 121                                    |          |          |                                     |          |          |          |                    |          |                 |
|  | 122                                    |          |          |                                     |          |          |          |                    |          |                 |
|  | 121<br>122<br>123<br>124<br>125<br>126 |          |          |                                     |          |          |          |                    |          |                 |
|  | 124                                    |          |          |                                     |          |          |          |                    |          |                 |
|  | 125                                    |          |          |                                     |          |          |          |                    |          |                 |
|  | 126                                    |          |          |                                     |          |          |          |                    |          | Ш               |
|  | 127<br>128<br>129<br>130               | L        |          |                                     |          |          | _        |                    | _        | Щ               |
| <u> </u>   | 128                                    | _        |          | _                                   | _        |          |          |                    |          |                 |
| <u> </u>   | 129                                    | _        | _        | _                                   |          | _        |          | _                  | _        | Н               |
|  | 130                                    | <u> </u> | L        | L                                   | L        | <u> </u> | <u> </u> | _                  | _        | Н               |
| <u> </u>   | 131                                    | H        | _        | <u> </u>                            | ⊢        | -        | -        |                    | _        | $\vdash$        |
|  | 132                                    | $\vdash$ | ⊢        | ⊢                                   | $\vdash$ | <u> </u> |          | <del> </del>       | -        | Н               |
|  | 132<br>133<br>134                      | $\vdash$ | H        |                                     | $\vdash$ | $\vdash$ |          | $\vdash$           | -        | $\vdash\vdash$  |
| <del> </del>                                     | 135                                    | $\vdash$ | $\vdash$ | $\vdash$                            | $\vdash$ | H        | $\vdash$ | $\vdash$           | -        | $\vdash \vdash$ |
| <del>                                     </del> | 135<br>136                             | $\vdash$ | -        | $\vdash$                            | $\vdash$ | -        |          | $\vdash$           | $\vdash$ | Н               |
| <b></b> -  | 137                                    |          |          |                                     |          | $\vdash$ | H        | H                  | Н        | Н               |
|  | 138                                    | $\vdash$ | $\vdash$ |                                     | Н        | Н        | $\vdash$ | Н                  |          | $\vdash$        |
|  | 138<br>139                             | П        |          | $\vdash$                            |          | Ι-       |          | Т                  |          | Н               |
|  | 140                                    | $\vdash$ | Г        | $\vdash$                            | Г        | Т        |          | Т                  | Г        | П               |
|  | 141                                    |          |          | l                                   |          | Г        |          | Г                  |          | П               |
|  | 142                                    |          |          |                                     |          |          |          |                    |          |                 |
|  | 143                                    |          |          |                                     |          |          |          |                    |          |                 |
|  | 144                                    |          |          |                                     |          |          |          |                    |          |                 |
|  | 145                                    |          |          |                                     |          |          |          |                    |          |                 |
|  | 146                                    |          |          |                                     |          |          |          |                    |          |                 |
|  | 147                                    |          |          |                                     |          |          |          |                    |          | Ш               |
|  | 148                                    | _        |          | _                                   |          |          | <u> </u> | L                  |          | Ш               |
| L_   | 149                                    | L        |          | $ldsymbol{ldsymbol{ldsymbol{eta}}}$ | <u> </u> | <u> </u> | <u> </u> | $oxedsymbol{oxed}$ | _        | Ш               |
|  | 150                                    |          |          |                                     |          |          |          |                    |          | LĴ              |